

Plant and Equipment Risk Assessment

	Hired From All Master Hire Stores			Lighting Tower Ll Cube	ED Diesel -	Approved By:	Steven Jose	
Equipment Location:		Equipment:				Signature:	for	
		Manufacture Details	ər	Various		-		
Hazard		Action Rec Yes		d Risk Level (Refer to risk matrix)	Hierarchy of Control	Hazard and Risk Trea Report Form)	tment (Complete Hazard	Risk Level after Risk Treatment (Refer to risk matrix)
brushes, rags c	nair, clothing, gloves, necktie, jewellery, cleaning or other materials become entangled with moving nt, or materials in motion?			HIGH	 ☑ Elimination □ Substitution ☑ Isolation ☑ Engineering ☑ Administration ☑ PPE 	maintenance, do n engine area where hot components	lecals clothing itched off before	LOW
Crushing					-	concorry		
 Can anyone be crushed due to: Material falling off the plant? Uncontrolled or unexpected movement of the plant or its load? Lack of capacity for the plant to be slowed, stopped or immobilized? The plant tipping or rolling over? Parts of the plant collapsing? Coming in contact with moving parts of the plant during testing, inspection, use, maintenance, cleaning or repair? Being thrown off or under the plant? Being trapped between the plant and materials or fixed structures? Other factors? 				HIGH	 □ Elimination □ Substitution ⊠ Isolation ⊠ Engineering ⊠ Administration □ PPE 	Follow manufacturers' instructions Obey all warning decals Ensure all towing and support arrangements are engaged correctly and on firm ground Ensure outriggers and jack legs are used to stabilize tower Do NOT set up or operate in winds greater than 80Km/h Ensure correct lifting equipment and lifting points are used when moving plant Ensure all persons are clear of the area when unit is being moved / transported		LOW

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				or coupled to a towing vehicle.	
Cutting, Stabbing and Puncturing					
 Can anyone be cut, stabbed or punctured due to? Coming in contact with sharp or flying objects? Coming in contact with moving parts of the plant during testing, inspection, operation, maintenance, cleaning or repair of the plant? Plant, parts of the plant or work pieces disintegrating? Work pieces being ejected? The mobility of the plant? Uncontrolled or unexpected movement of the plant? Other factors? 	⊠ Yes □ No	LOW	 ☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE 	Follow manufacturers' instructions Obey all warning decals Ensure all guards and fixtures are in place and operate correctly Ensure guards cover the entire width of rotating parts Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW
Shearing					
 Can anyone's body parts be: Sheared between two or more parts of the plant, or between a part of the plant and a work piece or structure? 	⊠ Yes □ No	HIGH	 ☐ Elimination ☐ Substitution ☐ Isolation ⊠ Engineering ⊠ Administration ⊠ PPE 	Follow manufacturers' instructions Obey all warning decals Ensure all guards and fixtures are in place and operate correctly Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW
Friction					
 Can anyone be burnt, gain abrasions etc. due to: Contact with moving parts or surfaces of the plant, or material handled by the plant? 	⊠ Yes □ No	LOW	☐ Elimination ☐ Substitution ☑ Isolation ☐ Engineering ☑ Administration ☑ PPE	Follow manufacturers' instructions Obey all warning decals Do not lean or reach into engine area with motor running If machine must be running whilst doing maintenance, do not lean or reach into engine area where there are rotating or hot components Ensure all guards and fixtures are in place and operate correctly Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW

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Striking	7				
 Can anyone be struck by moving objects due to: Uncontrolled or unexpected movement of the plant or material handled by the plant? Plant, parts of the plant or work pieces disintegrating? Work pieces being ejected? Mobility of the plant? Other factors? High Pressure Fluid 	Yes No	HIGH	☐ Elimination ☐ Substitution ⊠ Isolation ☐ Engineering ⊠ Administration ☐ PPE	Follow manufacturers' instructions Obey all warning decals Use appropriate prop/s to support elevated mechanisms when conducting inspection or maintenance Ensure travel of moving plant/vehicle (forward or reversing) is free of all personnel Use spotter in restricted areas Ensure all loads are placed and secured within tray of vehicle while transporting e.g. hoses, tools, moils Ensure exclusion zone in and around vehicle while loaded using mechanical aids (e.g. forklift, crane) Ensure all persons are clear of the area when a unit is being moved / transported or coupled to a towing vehicle	LOW
 Can anyone come into contact with? Fluids under high pressure in normal use, in the instance of plant failure? 	⊠ Yes ☐ No	HIGH	 ☐ Elimination ☐ Substitution ☐ Isolation ⊠ Engineering ⊠ Administration ⊠ PPE 	Follow manufacturers' instructions Obey all warning decals Ensure all protective covers are in place and safety devices are working Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW
Electrical		I	L		1
 Can anyone be injured by electrical shock or burnt due to: The plant contacting live electrical conductors? Plant working close to electrical conductors? Overload of electrical circuits? Damaged or poorly maintenance electrical leads or cables? Damaged electrical switches? Water near electrical equipment? Lack of isolation procedures? Other factors 	⊠ Yes □ No	HIGH	 ☐ Elimination ☐ Substitution ☐ Isolation ⊠ Engineering ⊠ Administration ☑ PPE 	Follow manufacturers' instructions Obey all warning decals Have power disconnected before loading or unloading where wiring may be contacted Ensure cabinet enclosing 'electricals' is in place and intact Ensure 'electricals' are maintained and always checked by a qualified electrician	LOW

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				Do not position tower less than 3m to any electrical or energized parts/lines – Refer to Operations & Safety Manual (Table 1-1) for further details Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	
Explosion		L			
Can anyone be injured by fuels such as gases, vapors, liquids, dusts or other substances being ignited triggered by the operation of the plant or by materials handled by the plant?	⊠ Yes □ No	LOW	 ☐ Elimination ☐ Substitution ☐ Isolation ☑ Engineering △ Administration ☐ PPE 	Follow manufacturers' instructions Obey all warning decals Ensure safety devices e.g. safety valve and motor overload are fitted and working to minimise pressure buildup Shut down engine and allow to cool before refueling	LOW
Slipping, Tripping and Falling		I			
 Can anyone using the plant, or in the vicinity of the plant, slip, trip or fall due to: Uneven or slippery work surfaces? Poor housekeeping, such as shavings in the vicinity of the plant, spillage not cleaned up? Obstacles being placed in the vicinity of the plant? Other factors? 	⊠ Yes □ No	LOW	 ☐ Elimination ☐ Substitution ☐ Isolation ⊠ Engineering ☐ Administration ☑ PPE 	Follow manufacturers' instructions Obey all warning decals Check regularly for oil leaks and ensure o-rings are in place and secure Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW
High Temperature					
 Can anyone: Come into contact with objects at high temperature? Come into contact with hot fluids? Be injured by fire? 	⊠ Yes □ No	MEDIUM	 ☐ Elimination ☐ Substitution ☑ Isolation ☑ Engineering ☑ Administration ☑ PPE 	Follow manufacturers' instructions Obey all warning decals Ensure all guards are in place that protect hot surfaces Allow motor and other components to cool before servicing Do NOT operate lights at a height where they could be touched as they will be hot during and after operation Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW

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Temperature and Thermal Comfort					
 Can anyone suffer ill-health due to: Exposure to high or low temperatures? Failure of air conditioning equipment? 	⊠ Yes □ No	LOW	 ☐ Elimination ☐ Substitution ☐ Isolation ☐ Engineering ☑ Administration ☑ PPE 	Follow manufacturers' instructions Obey all warning decals Be aware of body responses to adverse/ extreme weather conditions (hot/cold) Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW
Suffocation					
 Can anyone be suffocated due to: Lack of oxygen, or atmospheric contamination? 	⊠ Yes □ No	MEDIUM	 ☐ Elimination ☐ Substitution ⊠ Isolation ☐ Engineering ☑ Administration ☑ PPE 	Follow Instructions in Operator Manual Specific site Hazard Assessment must be conducted before operation Only competent persons to operate plant Only operate where adequate ventilation is available SOP must be followed when checks and services are conducted Appropriate PPE must be worn	LOW
Ergonomics		L			
 Can anyone be injured due to: Poorly designed seating? Repetitive body movements? Constrained body posture or the need for excessive effort? Design deficiency causing physical or personal stress? Inadequate or poorly placed lighting? Lack of consideration given to human error or human behavior? Mismatch of the plant with human traits and natural limitations? Other factors? 	⊠ Yes □ No	MEDIUM	 ☑ Elimination ☐ Substitution ☐ Isolation ☑ Engineering ☑ Administration ☐ PPE 	Follow manufacturers' instructions Obey all warning decals Take regular breaks/rests Exercise/stretch regularly Do not operate beyond operators personal capabilities Use suitably designed and secured loading/unloading procedures including crane, hoist, ramps etc. Observe and use proper manual handling techniques	LOW

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SAFETY MANAGEMENT SYSTEM

Transportation					
Can anyone be injured by this equipment falling or driven off vehicle or trailer while loading, unloading or transportation?	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ☐ Administration ⊠ PPE	Follow manufacturers' instructions Obey all warning decals Ensure equipment, attachments and sundry items are securely tied down Always use pockets on base when moving Cube with forklift Use rated lifting point when lifting with crane – refer Operation & Safety Manual for details Do NOT use tower mast for any lifting purpose Ensure liquids are prevented from spillage Ensure all persons are clear of the area when a unit is being moved / transported Maintain vehicle and/or equipment in good working order - report any malfunction or damage to Master Hire immediately and stop using plant/vehicle where it is reasonable to foresee further risk to persons or damage to plant/vehicle Ensure V-arm is attached to the top of mast section 6 seats in the V-plate bolted to mast section 1 Ensure appropriate PPE is used (e.g. eye protection, hearing and footwear)	LOW
Operational					
Can anyone be injured by this equipment	⊠ Yes □ No	MEDIUM	☐ Elimination ☐ Substitution ☐ Isolation ⊠ Engineering ⊠ Administration ⊠ PPE	Follow manufacturers' instructions Obey all warning decals Position and operate in well-ventilated area to prevent inhaling vapours or fumes Before operating and/or raising mast, ensure Cube is positioned on firm, level ground Ensure gears, levers, switches etc. are	LOW

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				engaged/disengaged appropriately before starting/operating Ensure all guards and fixtures are in place Conduct Daily Checks before each start including structural integrity of unit and mast Ensure appropriate PPEs are used (e.g. eye protection, hearing and footwear) Ensure plant/vehicle is switched off before making any adjustments Ensure hold-to-run controls provided for machine are working properly Do not operate on steep slope Ensure handles and other adjustable parts are set right for the operator Ensure guards cover the entire width of the rotating parts	
Other Hazards Can anyone be injured or suffer ill-health from exposure to: Chemicals? Toxic gases or vapors? Fumes? Dust? Noise? Vibration? Radiation? Other Factors?	⊠ Yes □ No	LOW	□ Elimination □ Substitution □ Isolation ⊠ Engineering ⊠ Administration ⊠ PPE	Follow manufacturers' instructions Obey all warning decals Position and operate in well-ventilated area to prevent inhaling vapours or fumes Ensure sound cabinet is in place Wear appropriate PPE e.g. ear protection Ensure equipment is appropriately labeled and meet the relevant State Legislative requirements Maintain plant/vehicle in good working order - report any malfunction or damage to Master Hire immediately and stop using plant/vehicle where it is reasonable to foresee further risk to persons or damage to equipment	LOW

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Further Comments:	
	This equipment must only be driven/operated by competent persons and holders of the appropriate license
Checklist:	 Manufacturers' manuals referenced Copy kept in Master Hires' Risk Management File

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Hazard / Risk Matrix

Reference: Workplace Health and Safety Queensland - Risk Assessment - Supplement 2 Risk Management Code of Practice 2007

Step 1 Determine Likelihood – What is the possibility of the event happening?

	Criteria	Description	
Almost certain	Expected in most circumstances. Event is a common problem		
Likely	Will probably occur in most circumstances.	rcumstances. Event is known to have occurred at this site or it has happened	
Possible	Might occur at some time Event could occur at the site or I've heard of it happening		
Unlikely	Could occur at some time Event is not likely to occur at the site or I have not heard of it happening		
Rare	May occur only in exceptional circumstances	Event is practically impossible.	

Step 2 Determine Consequence - What will be the result if it happens?

Classification	Example detail description		
Insignificant	No injuries		
Minor	First aid treatment only; spillage contained at site.		
Moderate	Medical treatment; spillage contained but with outside help.		
Major	Extensive injuries; loss of production		
Catastrophic	Death; toxic release of chemicals		

Step 3 Determine the risk score

	CONSEQUENCE				
LIKELIHOOD	Insignificant	Minor	Moderate	Major	Catastrophic
Almost certain	3 High	3 High	4 Acute	4 Acute	4 Acute
Likely	2 Medium	3 High	3 High	4 Acute	4 Acute
Possible	1 Low	2 Medium	3 High	4 Acute	4 Acute
Unlikely	1 Low	1 Low	2 Medium	3 High	4 Acute
Rare	1 Low	1 Low	2 Medium	3 High	3 High

Step 4 Record risk score against the job sequence steps (Note – Risk scores have no absolute value and should only be used for comparison and to engender discussion.)

Score	Action		
4 A: Acute	ACT NOW – Urgent – do something about the risks immediately. Requires immediate attention.		
3 H: High	Highest management decision is required urgently.		
2 M: Medium	Follow management instructions.		
1 L: Low	OK for now. Record and review if any equipment/ people/ materials/ work processes or procedures change.		